

# PATENT SPECIFICATION



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## PROVISIONAL SPECIFICATION.

### Improvements in Ball or Marble Game Apparatus.

I, SYDNEY CHARLES CADDY, of 205, Richmond Road, Kingston-on-Thames, in the County of Surrey, Engineer, do hereby declare the nature of this invention to be as follows:—

This invention has reference to marble or ball game apparatus wherein the balls or marbles are struck and are adapted to strike a movable object and operate and produce effects, and the degree of which, may have certain values and produce the effect required or different effects.

The game apparatus according to this invention comprises of a board or table having a raised margin or parapet round it; and the object to be struck is at the upper end of the table or board and the striking position at the lower part. The marble or ball is thrown towards the object to be struck by a spring cue or equivalent projector implement; and the object to be struck may consist of a rotary device passed over an upright being a projecting or grooved thread, with which a corresponding thread device in the rotary device meshes, so that as the rotary device is struck and rotates, the spiral device or thread causes the rotary device to move up the upright or pole; and in one construction at the upper part of the pole or upright there is a movable device or figure which the rotary device operates or moves; and when this is accomplished this may be assumed to be a counting or winning stroke, and the device may have in it a receptacle for holding counters or the like which is so arranged that when the device is moved by the rotary device, these counters are thrown out and belong to the striker or player, or otherwise as may be predetermined. In one arrangement this device which is to be struck and moved by the rotary device, may be a human figure supported by a pivot on the standard, and so arranged that when

the rotary device, or a part or wiper thereon, strikes the figure, it topples over and thereby ejects the counters which have been placed in the receptacle which may be in the hat or elsewhere.

The parts of the rotary device which are to be struck by the balls or marbles may be in the form of wings radiating from same, and at a suitable radius, and when these arms are struck with sufficient force, the right force will be imparted to the rotary device, so as to cause it to ascend the pole to the degree required to actuate the figure.

At the bottom of the board a system of stalls may be used, in which the marbles or balls will run when returning to this end of the board; and the stalls will have different values which may count in the game.

The board or table may have raised obstructions which the returning marbles or balls may come in contact with so that they will be diverted.

The spring cue may consist of a staff threaded through a spiral spring, loose at its upper end, but fixed to the cue at its lower end, so that when the spring is gripped at the lower end, and the cue half is pulled back the spring will be stretched, and when let go, the tip of the cue will strike placed marble or ball in the direction aimed.

In some cases, instead of the cue device, a hinged spring striker may be used and the spring part may be in the form of a blade, hinged at one end of the half.

Dated the 6th day of October, 1919.

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## COMPLETE SPECIFICATION.

## Improvements in Ball or Marble Game Apparatus.

I, SYDNEY CHARLES CADDY, of 205, Richmond Road, Kingston-on-Thames, in the County of Surrey, Engineer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has reference to marble or ball game apparatus wherein the balls or marbles are struck, and are adapted to strike a movable object and operate and produce effects, and the degree of which, may have certain values and produce the effect required, or different effects.

The game apparatus according to this invention comprises a board or table having a raised margin or parapet round it; and the object to be struck is at the upper end of the table or board, and the striking position at the lower part. The marble or ball is thrown towards the object to be struck by a spring cue or equivalent projector implement; and the object to be struck may consist of a rotary device passed over an upright having a projecting or grooved thread, with which a corresponding thread device in the rotary device meshes, so that as the rotary device is struck and rotates, the spiral device or thread causes the rotary device to move up the upright or pole; and in one construction at the upper part of the pole or upright there is a movable device or figure which the rotary device operates or moves; and when this is accomplished, this may be assumed to be a counting or winning stroke; and the device may have in it a receptacle for holding counters or the like which is so arranged that when the device is moved by the rotary device, these counters are thrown out and belong to the striker or player, or otherwise as may be predetermined.

An example of apparatus according to this invention is shown in the annexed drawings, in which Figure 1 is a sectional elevation, Figure 2 is a plan, and Figures 3 and 4 are details.

Referring to the drawings, 1 generally represents the board or table, and 2 the raised margin or parapet. The object to be aimed at and struck is a rotary annular device 3, mounted on a round a

column 4, and having wings 5 which are the parts adapted to be struck by the ball or marble by the player. The column 4 has a short pitch thread 6 upon it, with which pins 7 carried in the device 3 mesh; so that when the right wing device 5 is struck, the device 3 will run up the thread of the column 4; and if struck hard enough will hit the device 7<sup>a</sup> mounted on the top of the column and cause it to operate, i.e. tip up, or take other action due to being struck; and the vanes 5 and device 3 are sufficiently heavy to give it the necessary momentum. In the case shown, the device 7<sup>a</sup> is mounted on a plate hinged at 8 to the column 4, so that when the pin 9 on the plate is struck by the device 3, the figure or device 7<sup>a</sup> is tilted forward about the hinge, and topples over; and any counters or objects carried in the tray 10 held by the figure, will be tipped out.

The bottom of the board is inclined downwards from the column 4, and has a plurality of stalls 11 at its front end, into which the marble or ball when returning down the board will pass; and these stalls may have different values, which may count in the game.

The board or table may have raised obstructions at points in it, such as pins, which the returning marble or ball may come in contact with when returning, so that it will be diverted.

The spring cue shown in Figure 4 consists of a staff 12 threaded through a spiral spring 13, held in a tube 14, and having fixed on its forward end a disc 15, between which and the back end of the tube, the spring 13 lies, the forward end of the staff 12 projecting through the outer end of the tube. Thus, by taking hold of the tube 14 in one hand, and pulling back the staff 12, the marble or ball marked O in Figure 2 can be struck; aim being taken so that the struck marble or ball shall strike the vane 5, which will cause the device 3 to run up the column.

In some cases instead of the cue device, a spring hinged striker may be used, and the spring part may be in the form of a plate hinged at one end of the handle.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to

be performed, I declare that what I claim is:—

1. A game apparatus comprising a board or table having fixed upon it a rotary device, which is to be struck by a ball or marble when driven up the board, and which is adapted when struck to run up a column or way; substantially as set forth.
2. Game apparatus of the kind specified in Claiming Clause 1, wherein the rotary device is adapted to run up a screw thread on the column when struck, and operate a movable device upon same; substantially as set forth.

3. In or for game apparatus of the kind hereinbefore described and claimed, a spring cue for striking the ball or marble; substantially as set forth.

4. Game apparatus substantially as herein set forth, and shown by way of example in the annexed drawings.

Dated this 7th day of July, 1920.

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[This Drawing is a reproduction of the Original on a reduced scale.]

